

05-90  
10/11

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#6

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/864,866

DATE: 10/12/2001

TIME: 09:24:28

Input Set : A:\26500170101.txt

Output Set: N:\CRF3\10122001\I864866.raw

3 <110> APPLICANT: Lloyd, R. Stephen  
4 McCullough, Amanda K.  
5 Nguyen, Khoa  
7 <120> TITLE OF INVENTION: DNA REPAIR POLYPEPTIDES AND METHODS OF USE  
9 <130> FILE REFERENCE: 265.00170101  
11 <140> CURRENT APPLICATION NUMBER: 09/864,866  
12 <141> CURRENT FILING DATE: 2001-05-23  
14 <150> PRIOR APPLICATION NUMBER: US 60/206,279  
15 <151> PRIOR FILING DATE: 2000-05-23  
17 <160> NUMBER OF SEQ ID NOS: 49  
19 <170> SOFTWARE: PatentIn version 3.0  
21 <210> SEQ ID NO: 1  
22 <211> LENGTH: 18  
23 <212> TYPE: PRT  
C--> 24 <213> ORGANISM: Artificial *OK*  
26 <220> FEATURE:  
27 <223> OTHER INFORMATION: A mitochondrial localization sequence  
29 <400> SEQUENCE: 1  
31 Met Ala Leu His Ser Met Arg Lys Ala Arg Glu Arg Trp Ser Phe Ile  
32 1 5 10 15  
34 Arg Ala  
37 <210> SEQ ID NO: 2  
38 <211> LENGTH: 55  
39 <212> TYPE: DNA  
C--> 40 <213> ORGANISM: Artificial *OK*  
42 <220> FEATURE:  
43 <223> OTHER INFORMATION: Oligonucleotide primer ✓  
45 <400> SEQUENCE: 2  
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49 <210> SEQ ID NO: 3  
50 <211> LENGTH: 55  
51 <212> TYPE: DNA  
C--> 52 <213> ORGANISM: Artificial  
54 <220> FEATURE:  
55 <223> OTHER INFORMATION: Oligonucleotide primer ✓  
57 <400> SEQUENCE: 3  
58 tatgctctaa taaagctcca gcgttcgcgc gctttgcgca tgctgtataa cgcca 55  
61 <210> SEQ ID NO: 4  
62 <211> LENGTH: 35  
63 <212> TYPE: DNA  
C--> 64 <213> ORGANISM: Artificial  
66 <220> FEATURE:  
67 <223> OTHER INFORMATION: Oligonucleotide primer ✓  
69 <400> SEQUENCE: 4  
70 atacggggta ccaccatggc gttacatagc atgcg 35  
73 <210> SEQ ID NO: 5  
74 <211> LENGTH: 38

ENTERED

P 5

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C--> 76 <213> ORGANISM: Artificial
78 <220> FEATURE:
79 <223> OTHER INFORMATION: Oligonucleotide primer
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86 <211> LENGTH: 27
87 <212> TYPE: DNA
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90 <220> FEATURE:
91 <223> OTHER INFORMATION: Oligonucleotide primer
93 <400> SEQUENCE: 6
94 gctttattag agcaacacgt gtgaatc 27
97 <210> SEQ ID NO: 7
98 <211> LENGTH: 27
99 <212> TYPE: DNA
C--> 100 <213> ORGANISM: Artificial
102 <220> FEATURE:
103 <223> OTHER INFORMATION: Oligonucleotide primer
105 <400> SEQUENCE: 7
106 gattcacacg tggtgctcta ataaagc 27
109 <210> SEQ ID NO: 8
110 <211> LENGTH: 35
111 <212> TYPE: DNA
C--> 112 <213> ORGANISM: Artificial
114 <220> FEATURE:
115 <223> OTHER INFORMATION: Oligonucleotide primer
117 <400> SEQUENCE: 8
118 atacggggtta ccaccatggc gttacatagc atgcg 35
121 <210> SEQ ID NO: 9
122 <211> LENGTH: 34
123 <212> TYPE: DNA
C--> 124 <213> ORGANISM: Artificial
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Oligonucleotide primer
129 <400> SEQUENCE: 9
130 gcacgcggat ccttatgcat aaatcgcctt accg 34
133 <210> SEQ ID NO: 10
134 <211> LENGTH: 27
135 <212> TYPE: DNA
C--> 136 <213> ORGANISM: Artificial
138 <220> FEATURE:
139 <223> OTHER INFORMATION: Oligonucleotide primer
141 <400> SEQUENCE: 10
142 gctttattag agcaactcgt atcaacc 27
145 <210> SEQ ID NO: 11
146 <211> LENGTH: 26
147 <212> TYPE: DNA

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      153 <400> SEQUENCE: 11
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      157 <210> SEQ ID NO: 12
      158 <211> LENGTH: 106
      159 <212> TYPE: DNA
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      162 <220> FEATURE:
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      165 <400> SEQUENCE: 12
      166 tatgggcgtg ttttgcttag gcccggtgggg cttaggccgc aaattacgca ccccgggcaa
      168 aggcccgta cagttattat cgcgcttatg cggcgatcat ttacag
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      176 <220> FEATURE:
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      185 <210> SEQ ID NO: 14
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      197 <210> SEQ ID NO: 15
      198 <211> LENGTH: 38
      199 <212> TYPE: DNA
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      202 <220> FEATURE:
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      205 <400> SEQUENCE: 15
      206 gcacgcggat ccttaattat tgctgggttt agctttcg
      209 <210> SEQ ID NO: 16
      210 <211> LENGTH: 36
      211 <212> TYPE: DNA
C--> 212 <213> ORGANISM: Artificial
      214 <220> FEATURE:
      215 <223> OTHER INFORMATION: Oligonucleotide primer
      217 <400> SEQUENCE: 16
      218 ggcgatcatt tacagactcg agtgaatctc gtaccg
      221 <210> SEQ ID NO: 17
      222 <211> LENGTH: 36

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Input Set : A:\26500170101.txt

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223 <212> TYPE: DNA
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226 <220> FEATURE:
227 <223> OTHER INFORMATION: Oligonucleotide primer
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233 <210> SEQ ID NO: 18
234 <211> LENGTH: 35
235 <212> TYPE: DNA
C--> 236 <213> ORGANISM: Artificial
238 <220> FEATURE:
239 <223> OTHER INFORMATION: Oligonucleotide primer
241 <400> SEQUENCE: 18
242 atacggggta ccacatggg cgtgttttgc ttagg 35
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246 <211> LENGTH: 34
247 <212> TYPE: DNA
C--> 248 <213> ORGANISM: Artificial
250 <220> FEATURE:
251 <223> OTHER INFORMATION: Oligonucleotide primer
253 <400> SEQUENCE: 19
254 gcacgcggat ccttatgcat aaatcgccctt accg 34
257 <210> SEQ ID NO: 20
258 <211> LENGTH: 32
259 <212> TYPE: DNA
C--> 260 <213> ORGANISM: Artificial
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263 <223> OTHER INFORMATION: Oligonucleotide primer
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269 <210> SEQ ID NO: 21
270 <211> LENGTH: 32
271 <212> TYPE: DNA
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274 <220> FEATURE:
275 <223> OTHER INFORMATION: Oligonucleotide primer
277 <400> SEQUENCE: 21
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281 <210> SEQ ID NO: 22
282 <211> LENGTH: 34
283 <212> TYPE: DNA
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286 <220> FEATURE:
287 <223> OTHER INFORMATION: Oligonucleotide primer
289 <400> SEQUENCE: 22
290 atacggggtc caccatggcg ttacatagca tgcg 34
293 <210> SEQ ID NO: 23
294 <211> LENGTH: 38
295 <212> TYPE: DNA

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PATENT APPLICATION: US/09/864,866

TIME: 09:24:28

Input Set : A:\26500170101.txt

Output Set: N:\CRF3\10122001\I864866.raw

C--> 296 <213> ORGANISM: Artificial  
298 <220> FEATURE:  
299 <223> OTHER INFORMATION: Oligonucleotide primer  
301 <400> SEQUENCE: 23  
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C--> 308 <213> ORGANISM: Artificial  
310 <220> FEATURE:  
311 <223> OTHER INFORMATION: Oligonucleotide primer  
313 <400> SEQUENCE: 24  
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317 <210> SEQ ID NO: 25  
318 <211> LENGTH: 34  
319 <212> TYPE: DNA

C--> 320 <213> ORGANISM: Artificial  
322 <220> FEATURE:  
323 <223> OTHER INFORMATION: Oligonucleotide primer  
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334 <220> FEATURE:  
335 <223> OTHER INFORMATION: Oligonucleotide primer  
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341 <210> SEQ ID NO: 27  
342 <211> LENGTH: 8  
343 <212> TYPE: PRT

C--> 344 <213> ORGANISM: Artificial  
346 <220> FEATURE:  
347 <223> OTHER INFORMATION: A consensus nuclear localization sequence  
349 <400> SEQUENCE: 27  
351 Pro Lys Lys Arg Lys Arg Arg Leu  
352 1 5  
354 <210> SEQ ID NO: 28  
355 <211> LENGTH: 30  
356 <212> TYPE: DNA

C--> 357 <213> ORGANISM: Artificial  
359 <220> FEATURE:  
360 <223> OTHER INFORMATION: Oligonucleotide primer  
362 <400> SEQUENCE: 28  
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366 <210> SEQ ID NO: 29  
367 <211> LENGTH: 30  
368 <212> TYPE: DNA

Use of n and / or Xaa has been detected in the  
Sequence Listing. Review the Sequence Listing  
to ensure a corresponding explanation is present  
in the <220> to <223> fields of each sequence  
using n or Xaa.

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/864,866

DATE: 10/12/2001

TIME: 09:24:29

Input Set : A:\26500170101.txt

Output Set: N:\CRF3\10122001\I864866.raw

L:24 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1  
L:40 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2  
L:52 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3  
L:64 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4  
L:76 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5  
L:88 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6  
L:100 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7  
L:112 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8  
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L:212 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16  
L:224 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:17  
L:236 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18  
L:248 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:19  
L:260 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:20  
L:272 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:21  
L:284 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:22  
L:296 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:23  
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L:746 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:48  
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